

## Message Text

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11

ACTION NRC-07

INFO OCT-01 EUR-12 ISO-00 FEA-01 ACDA-10 CIAE-00 INR-07

IO-13 L-03 NSAE-00 NSC-05 EB-07 OES-06 DODE-00 /072 W

----- 083923

R 101745Z DEC 76

FM USMISSION EC BRUSSELS

TO SECSTATE WASHDC 2550

INFO AMEMBASSY PARIS

ERDA WASHINGTON

ERDA GERMANTOWN

UNCLAS EC BRUSSELS 12145

STATE PASS TO NRC

E.O. 11652:N/A

TAGS: TECH,FR

SUBJECT: RADIOACTIVITY RELEASES AT MARCOULE

REF: STATE 291082

1.MISSION HAS SURVEYED KNOWLEDGEABLE SOURCES WITH REGARD TO POTENTIAL RUTHENIUM-106 RELEASES FROM FUEL REPROCESSING PLANTS. IN EC. THE TYPICAL PROCEDURE FOR LIMITING GASEOUS RELEASES FROM FUEL REPROCESSING PLANT IN EC IS TO PASS THE GASEOUS OFF-GAS STREAM THROUGH A CAUSTIC SCRUBBER WHERE THE GAS COMES INTO INTIMATE CONTACT WITH THE CAUSTIC SOLUTION. RUTHENIUM TETROXIDE IS THE VOLATILE FORM OF RUTHENIUM WHICH MAY BE PRESENT IN THE OFF-GAS STREAM. WHEN IT COMES INTO CONTACT WITH THE CAUSTIC SOLUTION IT IS CONVERTED INTO A NON-VOLATILE FORM, THE MAJORITY OF WHICH REMAINS IN THE CAUSTIC SOLUTION.THE SMALL FRACTION WHICH IS CARRIED OVER IS REMOVED BY THE FINAL HEPA FILTERS BEFORE THE GAS STREAM LEAVES THE PLANT.A CAUSTIC SCRUBBING-HEPA FILTER SYSTEM IS ALSO APPLIED TO THE GASEOUS CARRY-OVER ON THE PRESENTLY ENVISIONED VITRIFICATION SYSTEMS.

2.AS TO THE MAGNITUDE OF THE RELEASES FOR RUTHENIUM,STRONTIUM AND CESIUM QUOTED IN REFTTEL,MISSION CANNOT OBTAIN EXACT ACTUAL YEARLY RELEASE DATA FROM THE EC.BUT HAS BEEN INFORMED BY KNOWLEDGEABLE SOURCES THAT THE NUMBERS ARE SEVERAL ORDERS OF

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MAGNITUDE TOO HIGH FOR NORMAL OPERATIONS.

HINTON

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## Message Attributes

**Automatic Decaptioning:** X  
**Capture Date:** 01 JAN 1994  
**Channel Indicators:** n/a  
**Current Classification:** UNCLASSIFIED  
**Concepts:** RADIOACTIVE WASTES, RADIOACTIVE WASTES DISPOSAL, INFORMATION CONTROL, NUCLEAR HAZARDS, NUCLEAR POWER PLANTS  
**Control Number:** n/a  
**Copy:** SINGLE  
**Draft Date:** 10 DEC 1976  
**Decaption Date:** 01 JAN 1960  
**Decaption Note:**  
**Disposition Action:** n/a  
**Disposition Approved on Date:**  
**Disposition Authority:** n/a  
**Disposition Case Number:** n/a  
**Disposition Comment:**  
**Disposition Date:** 01 JAN 1960  
**Disposition Event:**  
**Disposition History:** n/a  
**Disposition Reason:**  
**Disposition Remarks:**  
**Document Number:** 1976ECBRU12145  
**Document Source:** CORE  
**Document Unique ID:** 00  
**Drafter:** n/a  
**Enclosure:** n/a  
**Executive Order:** N/A  
**Errors:** N/A  
**Film Number:** D760457-0883  
**From:** EC BRUSSELS  
**Handling Restrictions:** n/a  
**Image Path:**  
**ISecure:** 1  
**Legacy Key:** link1976/newtext/t19761255/aaaabv kf.tel  
**Line Count:** 62  
**Locator:** TEXT ON-LINE, ON MICROFILM  
**Office:** ACTION NRC  
**Original Classification:** UNCLASSIFIED  
**Original Handling Restrictions:** n/a  
**Original Previous Classification:** n/a  
**Original Previous Handling Restrictions:** n/a  
**Page Count:** 2  
**Previous Channel Indicators:** n/a  
**Previous Classification:** n/a  
**Previous Handling Restrictions:** n/a  
**Reference:** 76 STATE 291082  
**Review Action:** RELEASED, APPROVED  
**Review Authority:** wolfsd  
**Review Comment:** n/a  
**Review Content Flags:**  
**Review Date:** 07 JUN 2004  
**Review Event:**  
**Review Exemptions:** n/a  
**Review History:** RELEASED <07 JUN 2004 by hattaycs>; APPROVED <02 AUG 2004 by wolfsd>  
**Review Markings:**

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EO Systematic Review  
04 MAY 2006

**Review Media Identifier:**  
**Review Referrals:** n/a  
**Review Release Date:** n/a  
**Review Release Event:** n/a  
**Review Transfer Date:**  
**Review Withdrawn Fields:** n/a  
**Secure:** OPEN  
**Status:** NATIVE  
**Subject:** RADIOACTIVITY RELEASES AT MARCOULE  
**TAGS:** TECH, FR, NRC  
**To:** STATE  
**Type:** TE  
**Markings:** Margaret P. Grafeld Declassified/Released US Department of State EO Systematic Review 04 MAY 2006